

50BM8 is a miniature type triode-pentode designed for use as an AF amplifier by triode section and AF power amplifier by pentode section in radio receivers.

**BASE** E9-1 Small Button Noval 9-Pin

**MOUNTING POSITION**—Any

**HEATER**

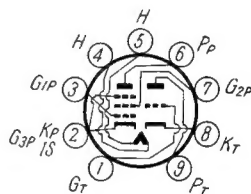
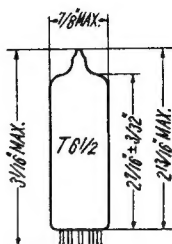
Voltage ..... 50 (V)

Current ..... 0.1 (A)

**DIRECT INTERELECTRODE CAPACITANCES**

(Without Shield)

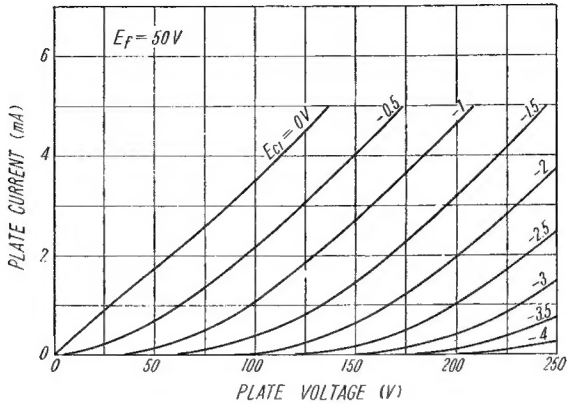
	Triode Unit	Pentode Unit
Grid No. 1 to plate	4.2	0.3 max. (pF)
Input	2.7	9.3 (pF)
Output	4.3	8.0 (pF)



MAXIMUM RATINGS (Design Center Values)			TYPICAL OPERATION		
	Triode Unit	Pentode Unit		Triode Unit	Pentode Unit
Plate Voltage	250	250 (V)	Plate Voltage	100	100 (V)
Grid No. 2 Voltage	250	250 (V)	Grid No. 2 Voltage	—	100 (V)
Plate Dissipation	1	7 (W)	Grid No. 1 Voltage	0	—6 (V)
Grid No. 2 Dissipation	—	1.8 (W)	Grid No. 1 Input	—	3.8 (V)
Total Cathode Current	15	50 (mA)	Plate Current	3.5	26 (mA)
Peak Heater—Cathode Voltage			Grid No. 1 Current	—	5.0 (mA)
Heater negative with			Transconductance	2,500	6,800 ( $\mu$ U)
respect to cathode		200 (V)	Plate Resistance		
Heater positive with			(Approx.)	—	15 (k $\Omega$ )
respect to cathode		200 $\Delta$ (V)	Amplification Factor	70	—
Grid No. 1 Circuit Resistance			Load Resistance	—	3.9 (k $\Omega$ )
with Fixed Bias	1	1 (M $\Omega$ )	Max.-Signal Power		
with Cathode Bias	3	2 (M $\Omega$ )	Output	—	1.05 (W)
with Grid Bias	22	— (M $\Omega$ )	Total Harmonic		
$\Delta$ The D.C. component must not exceed 100 volts.			Distortion	—	10 (%)

# AVERAGE PLATE CHARACTERISTICS

(Triode Unit)



# AVERAGE PLATE CHARACTERISTICS

(Pentode Unit)

